

ARMY SERVICE FORCES CATALOG

ORD 9 SNL G-503

ORDNANCE SUPPLY CATALOG

GROUP G

Technical Reference TM 9-803

(Standard Nomenclature List No. G-503)

List of All Parts

For

TRUCK, 1/4-TON, 4 x 4, COMMAND RECONNAISSANCE

(WILLYS-OVERLAND MOTORS, INC. MODEL MB

AND FORD MOTOR CO. MODEL GPW)

Supersedes ORD 9 portion of SNL G-503 Standard Nomenclature List, dated 15 January 1944. ORD 7 portion was superseded by ORD 7 SNL G-503 Organizational Spare Parts and Equipment, dated 11 October 1944, ORD 8 portion was superseded by ORD 8 SNL G-503 Higher Echelon Spare Parts and Equipment (Addendum), dated 5 August 1944.

Distribution: See Inside Front Cover

HEADQUARTERS, ARMY SERVICE FORCES, 15 FEBRUARY 1945

Headquarters, Army Service Forces

Washington 25, D. C., 15 February 1945

Army Service Forces Ordnance Supply Catalog, ORD 9
SNL G-503 List of All Parts, for Truck, ¼-Ton, 4 x 4,
Command Reconnaissance (Willys-Overland Motors, Inc.
Model MB and Ford Motor Co. Model GPW), has been
prepared under the supervision of the Chief of Ordnance
and is published for the information and guidance of
all concerned.

SPX 461 (1 February 1945)

By command of Lieutenant General SOMERVELL:

W. D. STYER,
Major General, General Staff Corps,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
Major General,
The Adjutant General.

Distribution: AAF (10); AGF (10); ASF (2); AAF Comds (2); Arm & Sv Bd (2);
S Div ASF (1); T of Opns (10); Tech Sv (2); Sv C (10); PC&S (1) except Air Bases
(3); PE, 9 (5); Dist O, 9 (5); Dist Br O, 9 (3); Reg O, 9 (3); Establishments, 9 (5);
Decentralized Sub-O, 9 (3); Tk Dep, 9 (5); Gen & Sp Sv Schs (10); USMA (2); A
(10); CHQ (10); D (2); AF (5); R 9 (2); Bn 9 (2); C 9 (3).

(For explanation of symbols see FM 21-6.)

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GENERAL INFORMATION

For full information relative to Standard Nomenclature Lists, the procedure followed and principles employed in the compilation, together with the purposes and uses thereof, see the Introduction to the Ordnance Catalog (ORD 1 IOC), the Ordnance Provision System Regulations (OPSR) and the Ordnance Publications for Supply Index (ORD 2 OPSI).

The Standard Nomenclature List for a major item consists of three main parts: The Organizational Spare Parts and Equipment (ORD 7), the Higher Echelon Spare Parts and Equipment (Addendum) (ORD 8), and the List of All Parts (ORD 9). These

Quick
Reference
Index

GENERAL INFORMATION

01 ENGINE

02 CLUTCH

03 FUEL

04 EXHAUST

05 COOLING SYSTEM

06 ELECTRICAL

07 TRANSMISSION

08 TRANSFER CASE

09 PROPELLER SHAFT AND
UNIVERSAL JOINT

10 FRONT AXLE

11 REAR AXLE

12 BRAKE

13 WHEELS, HUBS AND
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14 STEERING

15 FRAME AND BRACKETS

16 SPRING AND SHOCK
ABSORBER17 HOODS, FENDERS AND
APRONS

18 BODY

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21 BUMPERS AND GUARD

22 MISCELLANEOUS BODY
AND CHASSIS
ACCESSORIES23 GENERAL USE
STANDARDIZED PARTS

26 RADIO

INDEXES

three subdivisions may be published separately or may be combined. In this publication the ORD 9 is printed separately.

SCOPE

This List of All Parts contains information for the identification of all parts which are considered items of service for the vehicles and/or models listed below:

TRUCK, ¼-TON, 4 x 4, COMMAND RECONNAISSANCE

(WILLYS-OVERLAND MOTORS, INC. MODEL MB AND FORD MOTOR CO. MODEL GPW)

THIS PUBLICATION IS NOT TO BE USED FOR THE REQUISITIONING OF PARTS. IT IS TO BE USED ONLY FOR INFORMATION AND IDENTIFICATION.

FEATURES OF THIS PUBLICATION

The following paragraphs explain important features of this catalog.

STANDARDIZED GOVERNMENT GROUPING—The parts listed in this catalog are divided into groups and subgroups in accordance with the Standardized Government Grouping. This division into groups facilitates the location and identification of each part. The Standardized Government Grouping as adapted to this catalog is outlined on pages 4 and 5.

ILLUSTRATIONS—Each illustration is identified by a figure number and title, and an index of all figures and the pages on which they appear will be found in the back of the book. Items appearing on the illustrations are identified in the accompanying legend by noun, number and group.

COMPONENTS OF KITS, SETS AND ASSEMBLIES—Whenever any doubt might exist as to what items are included as components of kits, sets or assemblies, an explanatory note or complete listing of such components is shown.

ATTACHING PARTS—Attaching parts, such as bolts, nuts, rivets, screws, washers, etc., are indented immediately under the item which they attach. Whenever two similar items, having the same attaching parts, such as right and left fenders, are listed, they are placed one immediately following the other and the attaching parts for both are covered by a single listing under the second part. The quantities shown for the attaching parts are those necessary to attach both items.

INDEXES—Indexes are listed in the back of the book in the following sequence. Illustrations, Alphabetical, and Numerical (Official Stock Numbers, Manufacturers' Part Numbers, Ordnance Part Numbers).

OFFICIAL STOCK NUMBER—The prefix letter and number of the official stock number (i.e., G104-XX-XXXXX, G103-XX-XXXXX or G167-XX-XXXXX) signifies that the particular part or component was originally coded under the major item designation for that SNL, and does NOT mean that the part is used ONLY in that major item. All subsequent lists for different vehicles will include the same official stock number for this same part.

MANUFACTURERS' IDENTIFICATION SYMBOL—Identification symbols have been assigned to manufacturers' part numbers. These symbols are prefixed to the part numbers in this book and a list of manufacturers is shown on page 7.

LIST OF ABBREVIATIONS—A list of abbreviations appearing in this book is shown on page 6.

PUBLICATIONS PERTAINING TO THIS VEHICLE

Technical Manual 1st and 2nd Echelon.....	TM 9-803
Technical Manual 3rd and 4th Echelon	
Ordnance Maintenance: Engine and Engine Accessories.....	TM 9-1803A
Ordnance Maintenance: Power train, body, and frame	TM 9-1803B
Ordnance Maintenance: Electrical Equipment (Delco-Remy).....	TM 9-1825A
Ordnance Maintenance: Carburetor (Carter).....	TM 9-1826A
Ordnance Maintenance: Hydraulic brakes (Wagner-Lockheed).....	TM 9-1827C
Ordnance Maintenance: Pumps, fuel	TM 9-1828A

INTERCHANGEABILITY OF COMPONENTS—The engine, transmission, clutch and differential of the rear axle are the same as or similar to the corresponding units installed in Tractor, snow, M7 (SNL G-194).

The engine has many components that are the same as those of Power Unit (Willys Engine Model 441) Signal Corps Models PE95F, 95G, 95H, 182A and 183A Signal Corps Models PU58 and 26 (SNL G-716).

HOW TO FIND PARTS

This catalog is arranged and cross-indexed so that parts can be found easily even though only one of the several identifying factors is known. The various ways in which parts can be located are as follows:

If the nomenclature (basic name) only is known, and the subgroup is not, refer to the alphabetical index in the back of the book. This index will give the subgroup in which the part is listed. As the part names are arranged in alphabetical order within this subgroup, the complete listing of the part can readily be found.

If any one of the Part Numbers—Ordnance Number, Official Stock Number, or Manufacturer's Number—is known, refer to the appropriate numerical index in the back of the book. This index will give the subgroup number from which the part can be found by following the procedure given in the previous paragraph.

If the use, or function, or location of the part is known, refer to the illustration index to determine in which figure or figures the part is likely to appear; then turn to this figure until a picture of the part is found. The arrow pointing to the part will lead out to a listing of the name, part number and subgroup number, which will permit locating the complete listing of the part.

THE MAJOR ITEM COVERED BY THIS CATALOG IS DESIGNATED AS A GENERAL PURPOSE VEHICLE, AS DEFINED IN PARAGRAPH 3, AR 850-15, DATED 28 AUGUST 1943.

MODIFICATION WORK ORDERS

The following Modification Work Orders have been incorporated in this publication:

FSMWO G503-W1 modifying Radiator and Cooling System to improve cooling system for desert service by installing surge tank to conserve coolant.

MWO ORD G503-W2 modifying Electrical System to provide lighting current for trailers.

MWO ORD G503-W7 modifying Electrical System to convert the entire electrical system from 6 volts to 12 volts to provide current for radio equipment.

MWO ORD G503-W8 modifying Chassis to provide power winch.

MWO ORD G503-W9 modifying Engine, Tires and Spare Tire Carrier to install compressor and large tires to permit greater mobility through increased flotation.

STANDARDIZED GOVERNMENT GROUPING

01—ENGINE GROUP

0100	Engine Assembly
0101	Crankcase and Cylinder Block
0101A	Cylinder Head
0102	Crankshaft
0102A	Crankshaft Bearings
0103	Pistons
0103A	Piston Rings
0103B	Piston Pins
0104	Connecting Rods
0104A	Connecting Rod Bearings
0105	Valves, Seats, Guides and Springs
0105A	Tappets
0105C	Valve Covers and Gaskets
0106	Camshaft
0106A	Camshaft Bushings (bearings)
0106C	Chains and Sprockets
0106D	Timing Chain Cover
0107	Oil Pump
0107A	Oil Pan
0107A-1	Oil Float
0107E	Oil Filter
0107G	Oil Filler
0107H	Level Indicator (gage)
0107J	Oil Distribution System
0107N	Crankcase Ventilator
0108	Intake and Exhaust Manifolds
0108C	Heat Control
0109	Flywheel
0109B	Ring Gear
0109C	Flywheel Housing
0110	Mountings

02—CLUTCH GROUP

0201	Clutch Disk
0201A	Facings and Rivets
0202	Cover and Pressure Plate
0203	Release Parts
0204	Pedal
0204A	Pedal Linkage
0205	Pilot Bearing

03—FUEL GROUP

0300	Fuel Tanks
0300A	Tank Gage Unit
0301	Carburetor
0301A	Carburetor Attaching Parts
0301B	Choke (see Group 0303A)
0301C	Air Cleaner
0302	Fuel Pump
0302A	Fuel Pump Attaching Parts
0303	Accelerator and Linkage
0303A	Hand Throttle and Choke Control
0304	Fuel Lines
0306B	Fuel Strainer

04—EXHAUST GROUP

0401	Muffler and Exhaust Pipe (round type and oval type)
0401-1	Muffler and Exhaust Pipe (deep mud type)

05—COOLING GROUP

0501	Radiator
0501C	Surge Tank
0502	Thermostat
0503	Water Pump
0503A	Fan and Pulleys
0503B	Fan Belt
0505	Engine Water Fittings and Hose

06—ELECTRICAL GROUP

0601	Generator (ball type bearing)
0601-1	Generator (bushing type bearing)
0601-2	Generator (12 volt)
0601A	Generator Attaching Parts
0601A-1	Generator (12 volt) Attaching Parts
0601B	Generator Regulator
0601B-1	Generator Regulator (12 volt)
0602	Cranking Motor
0602-1	Cranking Motor (12 volt)
0603	Distributor (regular type)
0603-1	Distributor (dustproof type)
0604	Ignition Coil
0604A	Ignition Wiring
0604B	Spark plugs
0604C	Ignition Lock
0605	Instruments
0605C	Panel Light
0606	Switches
0606B	Chassis Wiring
0606D	Circuit Breakers
0606E	Junction Blocks
0606F	Trailer Electric Coupling
0607	Headlight
0607A	Sealed Beam
0607B	Lamps
0607D	Blackout Lights
0608	Taillight
0609	Horns
0609B	Horn Button and Wiring
0610	Battery
0610A	Battery Hangers
0610B	Battery Cables and Connections
0610B-1	Battery Cables and Connections (12 volt)

07—TRANSMISSION GROUP

0700	Transmission Assembly
0701	Case
0703	Main Drive Gear and Bearings
0704	Main Shaft, Gears and Bearings
0704C	Countershaft and Reverse Idler Shaft, Gears and Bearings
0706A	Gearshift Lever and Parts
0706B	Gearshift Rails and Parts
0706C	Gearshift Forks

08—TRANSFER CASE GROUP

0800	Transfer Case Assembly
0801	Case and Covers
0802	Drive Gear
0803	Output Shaft, Gears and Bearings
0804	Intermediate Shaft, Gear and Bearings
0805	Shifter Rods and Parts
0805A	Forks
0805B	Shift Lever and Parts
0809	Mountings
0810	Speedometer Drive Gears

09—PROPELLER SHAFT AND UNIVERSAL JOINT GROUP

0901	Propeller Shaft Assemblies
0902	Universal Joints

10—FRONT AXLE GROUP

1000	Front Axle Assembly
1001	Housing
1003	Differential Case, Gears, Pinion and Bearings
1006	Steering Knuckle, Flange and Arm
1007	Axle Shafts and Universal Joints

11—REAR AXLE GROUP

1100	Rear Axle Assembly
1101	Housing Assembly
1102	Axle Drive Shafts
1104	Differential Case, Gears, Pinion and Bearings

12—BRAKE GROUP

1200	Brake Assembly
1201	Hand Brake Parts (external contracting type)
1201-1	Hand Brake Parts (internal expanding type)
1202	Shoes and Facings
1203	Brake Shoe Support
1204	Pedal and Spring
1205	Master Cylinder
1207	Wheel Cylinders
1209B	Hoses
1209C	Tubes and Clips
1209D	Brackets and Springs

13—WHEELS, HUBS AND DRUMS GROUP

1301	Wheel Assembly
1301A	Bearings
1301B	Seals
1302	Hubs and Drums
1302A	Studs and Bolts

14—STEERING GROUP

1401	Steering Connecting Rod (drag link) and Bell Crank
1402	Tie Rod
1403A	Gear Assembly
1404	Wheel Assembly
1405	Brackets

15—FRAME AND BRACKETS GROUP

1500	Frame and Brackets
1502	Pintle Hook
1505	Spare Wheel Carrier

16—SPRING AND SHOCK ABSORBER GROUP

1601	Front Springs
1601A	Rear Springs
1601B	Spring Bumpers
1601C	Torque Reaction Spring
1602	Shackles and Spring Attaching Parts
1603	Shock Absorbers and Mountings

17—HOODS, FENDERS, APRON GROUP

1701	Fenders
1702	Splash Apron
1704	Hood

18—BODY GROUP

1800	Body
1800A	Body Handles
1800B	Top
1801	Body Mounting Parts
1802	Body Pillars
1802A	Body Panels
1803	Floor Mats and Seals
1804	Seats
1804A	Cushions
1809	Instrument Panel and Mounting Parts
1809A	Compartment and Parts
1811	Windshield Assembly
1811B	Windshield Frame Molding and Seals
1811D	Windshield Wiper Arms and Blades
1817	Tool Box
1817A	Spare Gasoline Carrier
1820	Gun Holders

20—WINCH GROUP

2000	Winch Assembly
2001	Winch Parts and Winch Drive Shafts
2002	Cables and Ropes
2003	Winch Control Parts

21—BUMPERS AND GUARD GROUP

2101	Bumpers
2103	Radiator Guards
2103A	Lamp Guards

22—MISCELLANEOUS BODY, CHASSIS AND ACCESSORY GROUP

2201	Tarpaulins
2201A	Bows
2201F	Side Curtains
2202	Rear View Mirrors
2203	Identification and Caution Plates
2203A	Reflectors
2204	Speedometer and Parts
2208	Air Compressor (tire pump)

23—GENERAL USE STANDARDIZED PARTS

2306	Tires and Tubes
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26—RADIO GROUP

2603	Radio Suppression System Parts
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LIST OF ABBREVIATIONS

alloy-S.	alloy steel	mach.	machine
amp.	ampere	mall-I	malleable iron
as req.	as required	mfd.	microfarad
binding-hd.	binding head	NC	National coarse
br.	brass	NF	National fine
bz.	bronze	No.	number
c-pin	cotter pin	NS	National form special
cd-pltd.	cadmium plated	O.D.	outer diameter
ck-hd.	countersunk head	Ord.	ordnance
contd.	continued	oval-hd.	oval head
cp.	candlepower	pltd.	plated
deg.	degree	rd-hd.	round head
diam.	diameter	reg.	regular
dld. f/c-pin	drilled for cotter pin	R.H.	right hand
dld. f/1kg-wire	drilled for locking wire	S.	steel
elec.	electric	SAE	Society of Automotive Engineers
fil.	filament	s-fin.	semi-finished
fil-hd.	fillister head	sp. gr.	specific gravity
fl.	flat	sq.	square
fl-hd.	flat head	sq-hd.	square head
gr.	gravity	sq-nk.	square neck
hd.	head	sq-shank	square shank
hex.	hexagonal	std.	standard
hex-hd.	hexagonal-head	stght.	straight
hr.	hour	thd.	thread
hv.	heavy	thk.	thick
I.	iron	tung.	tungsten
I.D.	inner diameter	USS	United States Standard
in.	inch	V.	volt
incand.	incandescent	w/	with
lgh.	length	w/o	without
L.H.	left hand	zn-pltd.	zinc plated

MANUFACTURERS' IDENTIFICATION SYMBOLS

AB	Aetna Ball Bearing Mfg. Co.	4600 Schubert Ave., Chicago 39, Illinois
AC	A. C. Spark Plug Division (General Motors Corp.)	1300 N. Dort Hghwy., Flint 2, Michigan
AD	Alemite Division (Stewart-Warner Corp.)	1826 Diversey Pkwy., Chicago 14, Illinois
AL	Electric Auto-Lite Co.	Main Post Office Box 931, Toledo 1, Ohio
AN	Ainsworth Mfg. Corp.	2200 Franklin St., Detroit 7, Michigan
AVM	Atwood Vacuum Machine Co.	2500 N. Main St., Rockford, Illinois
BA	Bassick Co. (The)	38 Austin St., Bridgeport 2, Conn.
B & B	Borg and Beck Div. (Borg-Warner Corp.)	6558 S. Menard Ave., Chicago 38, Illinois
BN	Bantam Bearing Corp. (The)	South Bend 21, Indiana
BOW	Bower Roller Bearing Co.	3040 Hart Ave., Detroit 14, Michigan
BUE	Budd Mfg. Co., Edw. G.	2450 Hunting Parke Ave., Philadelphia 32, Pennsylvania
BX	Bendix Products Div.	401 Bendix Drive, South Bend 20, Indiana
CA	Columbus Auto Parts Co.	Hudson St. and Penn. R.R., Columbus 16, Ohio
CAR	Carter Carburetor Corp.	2820-56 N. Spring Ave., P.O. Box 2425, St. Louis 7, Missouri
CB	Corcoran-Brown Lamp Co.	4900 Spring Gr. Ave., Cincinnati 32, Ohio
CL	Clum Mfg. Co.	601 W. National Ave., Milwaukee 4, Wisconsin
CNC	Cinch Mfg. Corp.	2335 W. Van Buren St., Chicago 12, Illinois
DM	Douglas Mfg. Co., H. A.	Bronson, Michigan
DTC	Deutschmann, Tobe, Corp.	Washington Ave., Canton, Massachusetts
EAT	Eaton Mfg. Co. (The)	739 E. 140th St., Cleveland 10, Ohio
FB	Federal Bearings Co., Inc.	Poughkeepsie, New York
FM	Ford Motor Co.	3000 Schaefer Rd., Dearborn, Michigan
GM	General Motors Corp.	3044 W. Grand Blvd., Detroit 2, Michigan
HI	Hayes Industries, Inc.	437 Fern Ave., Jackson, Michigan
HO	Hoover Ball and Bearing Co.	Ann Arbor, Michigan
HP	Harris Products Co.	5105 Cowan Ave., Cleveland 4, Ohio
KHW	Kelsey, Hayes Wheel Co.	3600 Military Ave., Detroit 32, Michigan
KS	King-Seeley Corp.	316 S. 1st St., Ann Arbor, Michigan
LK	Link-Belt Co.	307 N. Michigan Ave., Chicago 1, Illinois
LO	Wagner Electric Corp.	6400 Plymouth Ave., St. Louis 14, Missouri
MAE	Monroe Auto Equipment	E. 1st St., Monroe, Michigan
MDR	McCord Radiator and Mfg. Co.	2587 E. Grand Blvd., Detroit 11, Michigan
MLL	Mallory and Co. Inc., P. R.	3029 E. Washington, Indianapolis 6, Indiana
MRC	Marlin-Rockwell Corp.	402 Chandler St., Jamestown 55, New York
MZ	"Mazda"-General Electric Co.	Schenectady 5, New York
ND	New Departure Div. (General Motors Corp.)	1940 Hughes St., Bristol, Connecticut
NP	New Process Gear, Inc.	500 Plum St., Syracuse 1, New York
OKS	Oakes Products Div. (Houdaille-Hershey Corp.)	2188 National Bank Bldg., Detroit 26, Mich.
PU	Purolator Products, Inc.	365 Frelinghuysen Ave., Newark 5, New Jersey
RG	Ross Gear and Tool Co.	8th and Heath Sts., Lafayette, Indiana
RMC	Rich Mfg. Corp.	Battle Creek 100, Michigan
SKF	SKF Industries, Inc.	Front St. and Erie Ave., Philadelphia 34, Pennsylvania
SOL	Solar Mfg. Co.	23rd St. and Avenue A, Bayonne 2, New Jersey
SP	Spicer Mfg. Corp.	4100 Bennett Rd., Toledo 1, Ohio
SPR	Sprague Specialties Co.	Beaver St., North Adams, Massachusetts
TIM	Timken Roller Bearing Co. (The)	1935 Kelley Ave., Canton, Ohio
TP	Thompson Products, Inc.	2196 Clarkwood Rd., Cleveland 3, Ohio
TR	Torrington Co. (The)	59 Field St., Torrington, Connecticut
TRI	Trico Products Co.	817 Washington St., Buffalo 3, New York
TRU	TRU-Stop (American Chain and Cable Co.)	Bridgeport 2, Connecticut
TSE	Taylor Sales Engineering Co.	117 W. Franklin St., Elkhart, Indiana
USL	Autolite Battery Corp. (formerly USL Battery Corp.)	Highland Ave., Niagara Falls, New York
VC	Van Cleef Brothers	7800 S. Woodlawn Ave., S., Chicago 19, Illinois
WB	Willard Storage Battery Co.	264 E. 131st St., Cleveland 1, Ohio
WBK	Westinghouse Air Brake Co. (Industrial Div.)	1943 Herman Ave., Welmerding, Pa.
WC	Weston Electrical Instrument Corp.	614 Frelinghuysen Ave., Newark 5, New Jersey
WEB	Warner Electric Brake Mfg. Co.	Beloit, Wisconsin
WH	Weatherhead Co. (The)	300 E. 131st St., Cleveland 8, Ohio
WO	Willys-Overland Motors, Inc.	Wolcott Blvd., Toledo 1, Ohio
WP	Worthington Pump & Machinery Corp.	Harrison, New Jersey

RA PD 342253

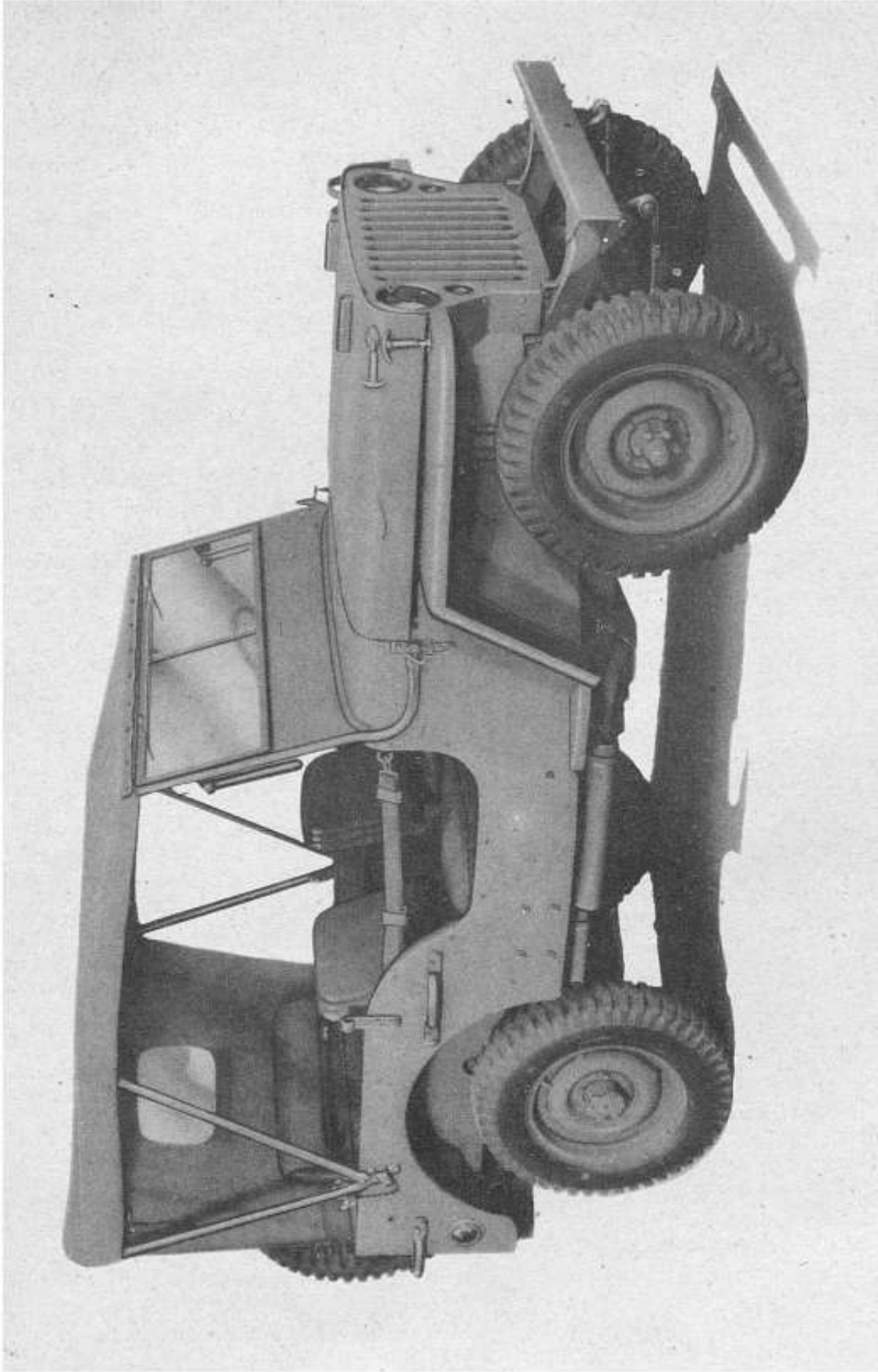


FIGURE A—TRUCK, 1/4-TON, 4 x 4 COMMAND RECONNAISSANCE—3/4, RIGHT FRONT VIEW